

OSI LAYERS

7	APPLICATION
6	PRESENTATION
5	SESSION
4	TRANSPORT
3	NETWORK
2	DATA LINK
1	PHYSICAL

FIG. 1
(PRIOR ART)

IP ADDRESS; 10

NETWORK	HOST
12	14

FIG. 2
(PRIOR ART)

	ADDRESS, 40	PREFIX LENGTH, 42	INTERFACE, 44
30	1.0.0.0	8	C
32	1.2.3.0	24	B
34	1.2.4.0	24	A
36	1.2.0.0	16	A

FIG. 4A
(PRIOR ART)

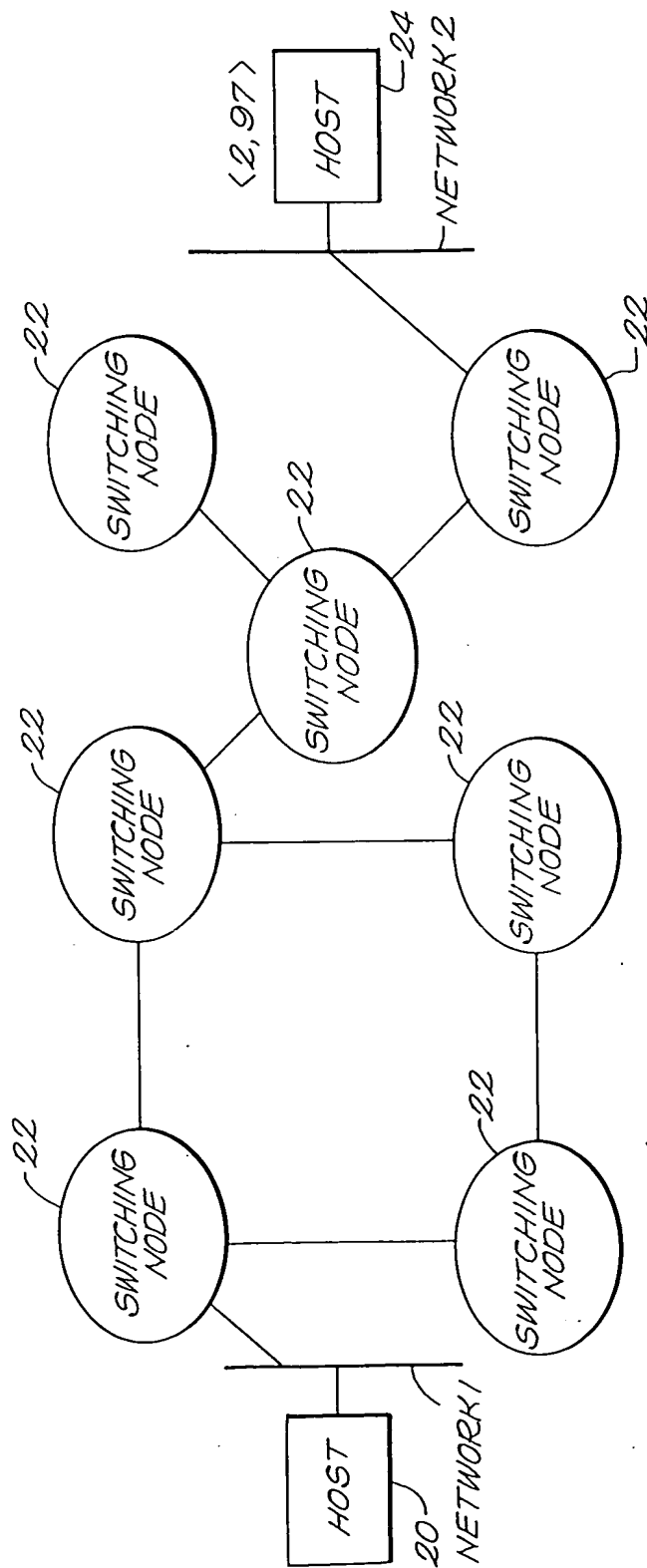


FIG. 3
(PRIOR ART)

Diagram illustrating a network topology with two nodes, Node A and Node B, connected by a line.

- Node A (Left):** Labeled "NODE A". It has three interfaces:
 - Interface **C** is connected to a line labeled **1/8**.
 - Interface **A** is connected to a line labeled **50**.
 - Interface **B** is connected to a line labeled **1.2.3./24**.
- Node B (Right):** Labeled "NODE B". It has two interfaces:
 - Interface **52** is connected to a line labeled **1.2.4./24**.
 - Another interface is connected to a line labeled **1.2./16**.

FIG. 5
(PRIOR ART)

4/11

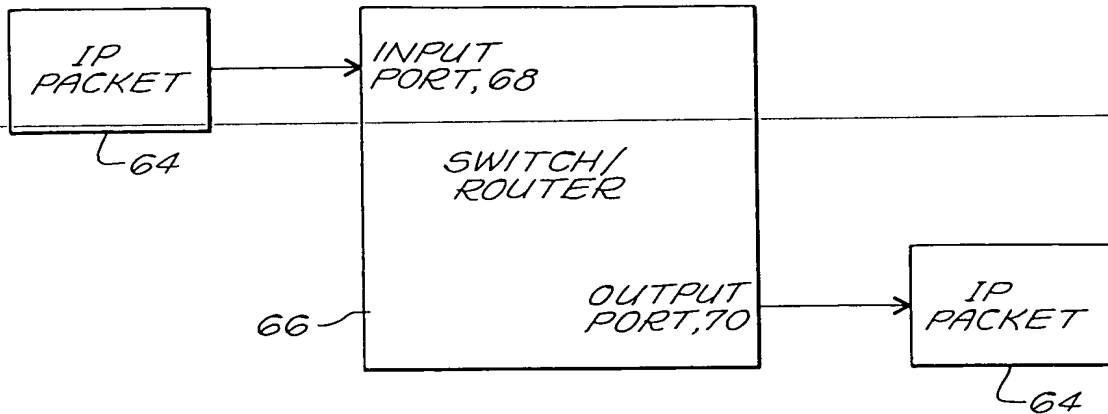


FIG. 6

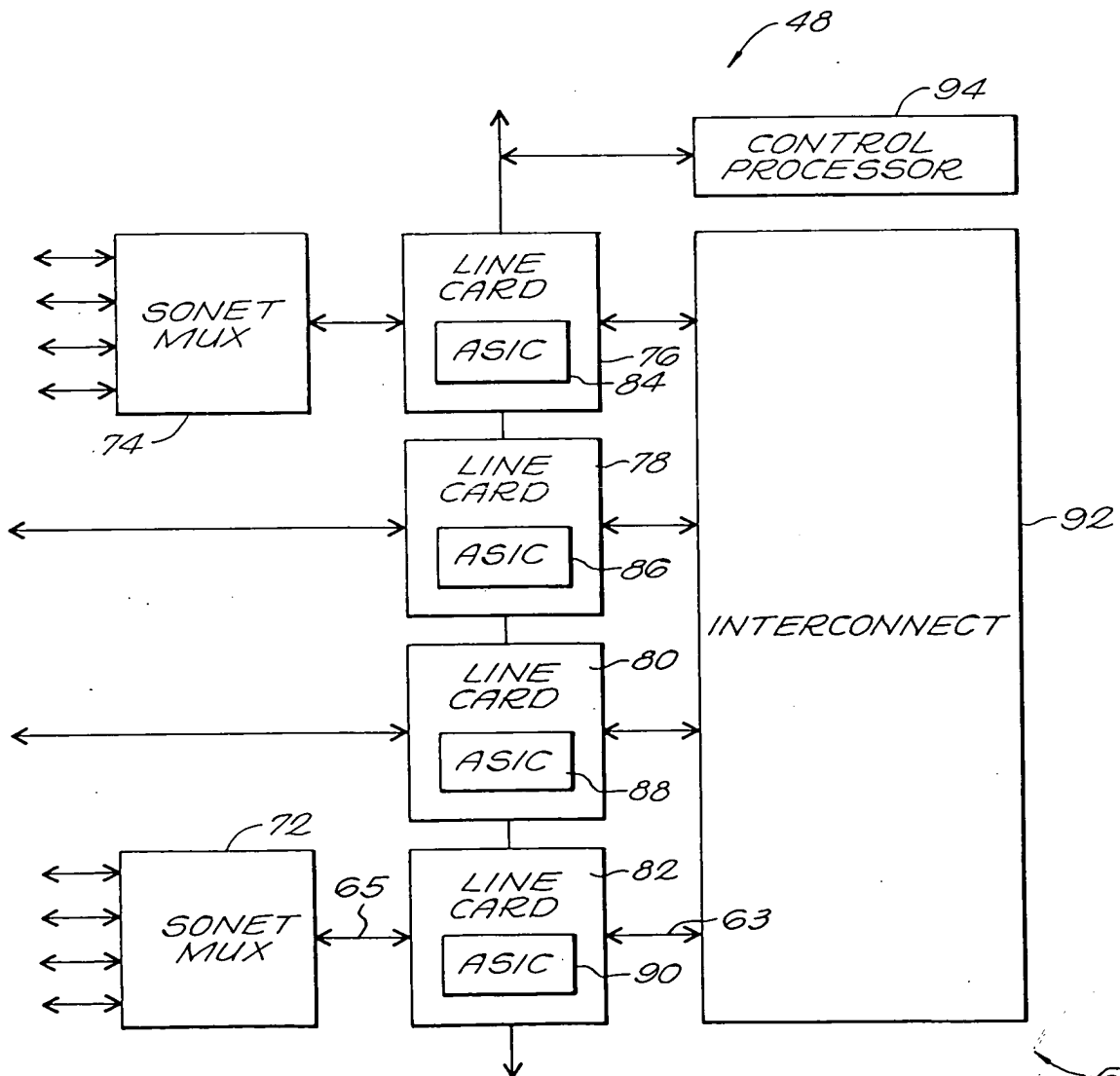
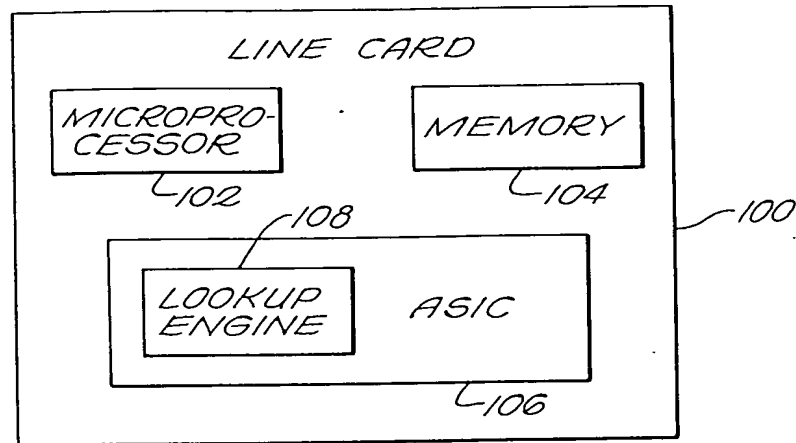
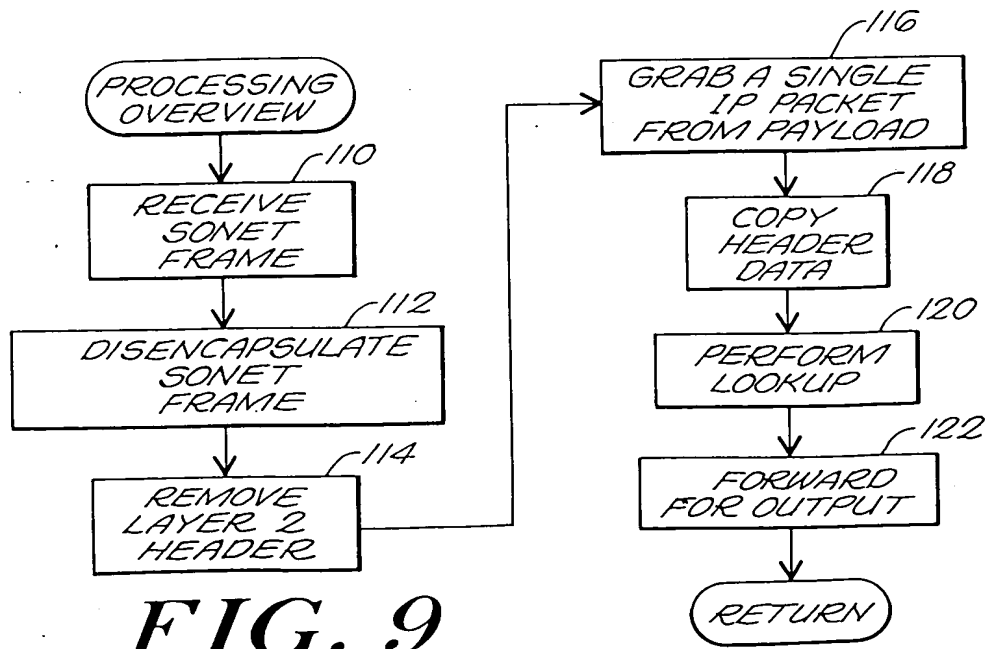
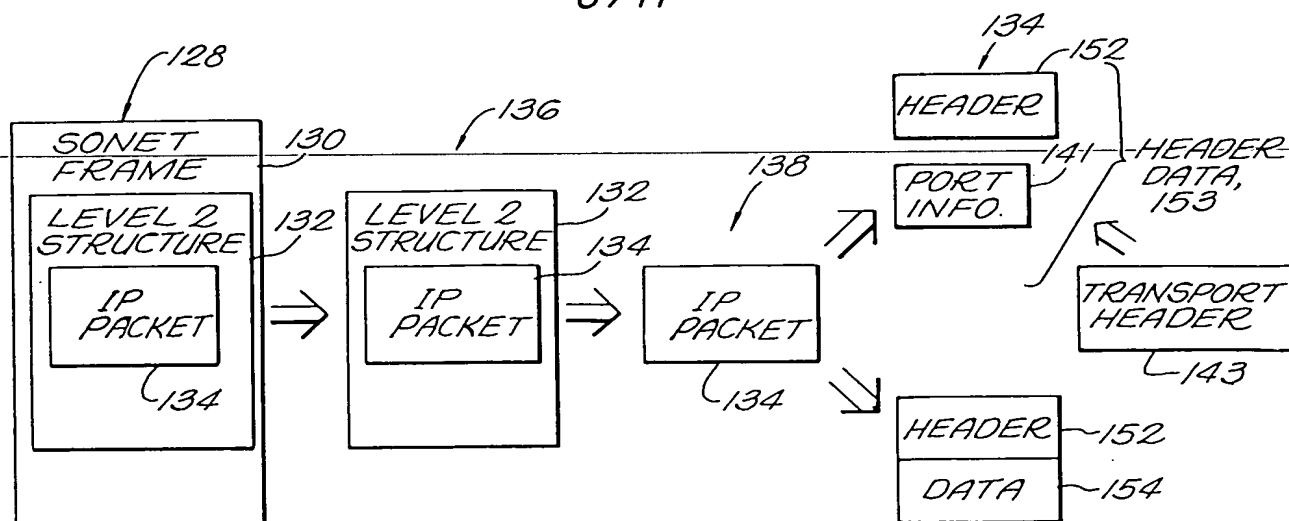
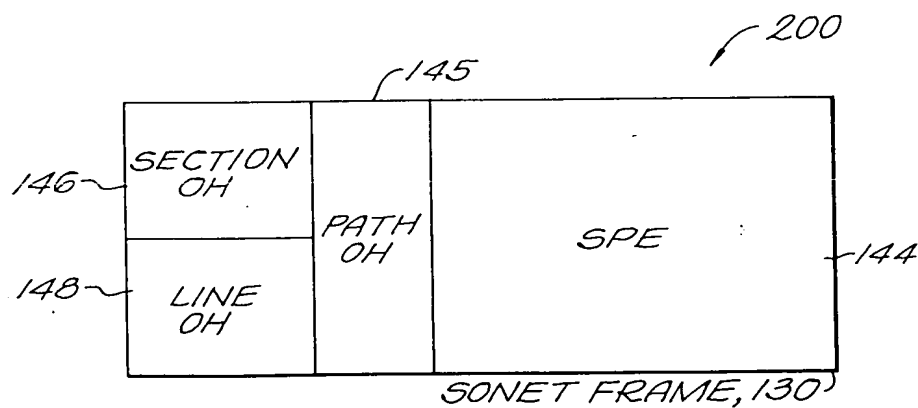
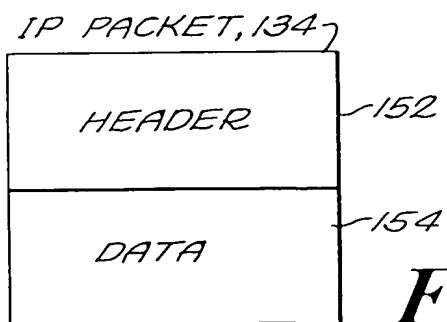


FIG. 7

**FIG. 8****FIG. 9**

**FIG. 10****FIG. 11****FIG. 12**

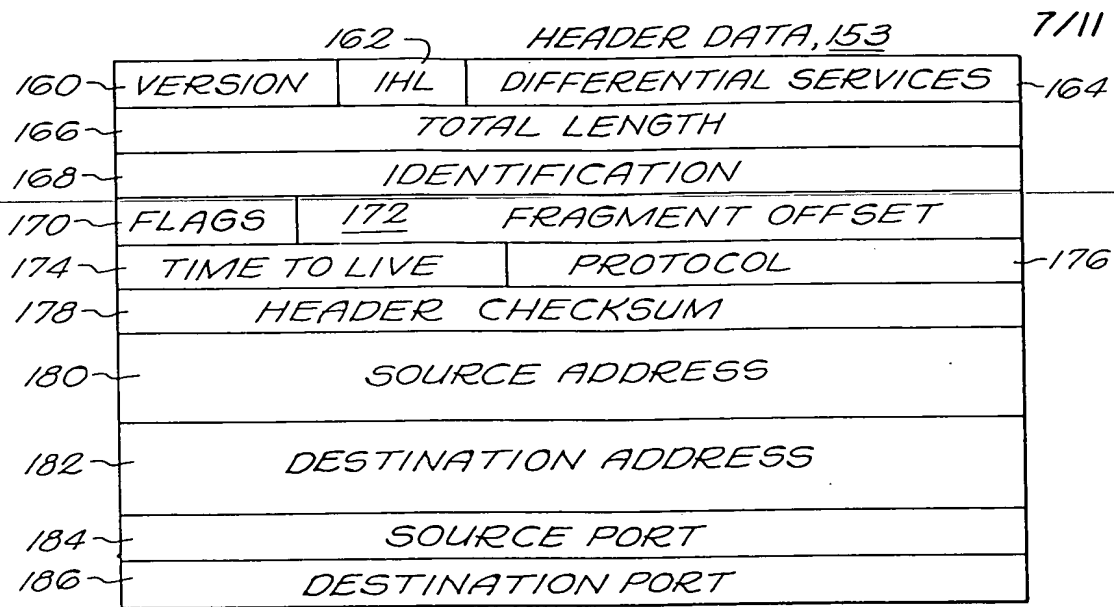


FIG. 13

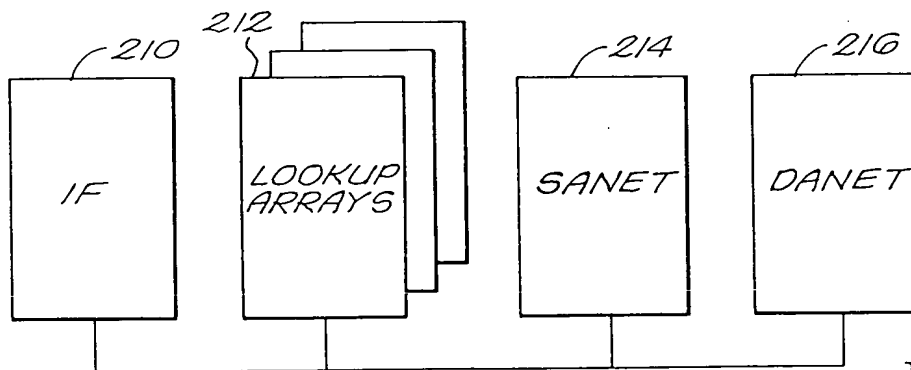


FIG. 14

INTERFACE STRUCTURE, 210

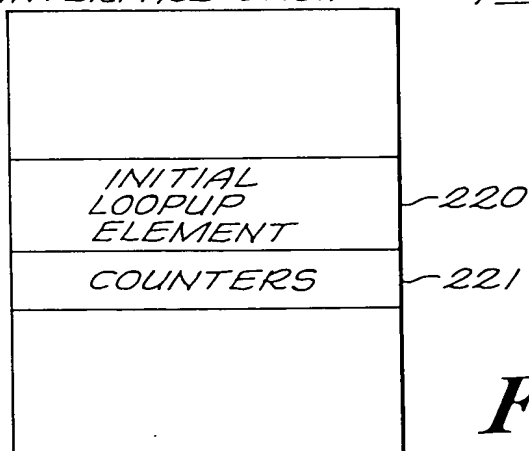
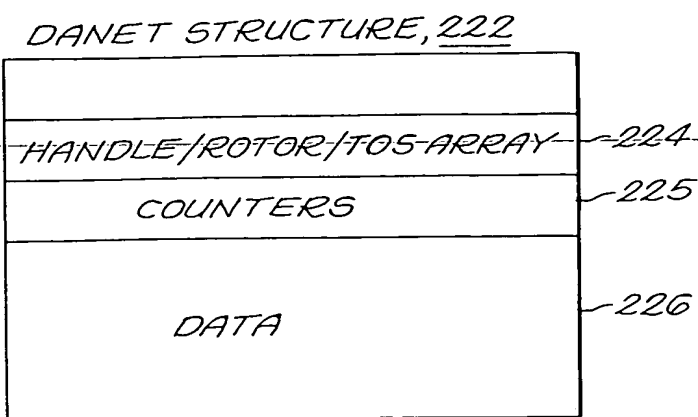
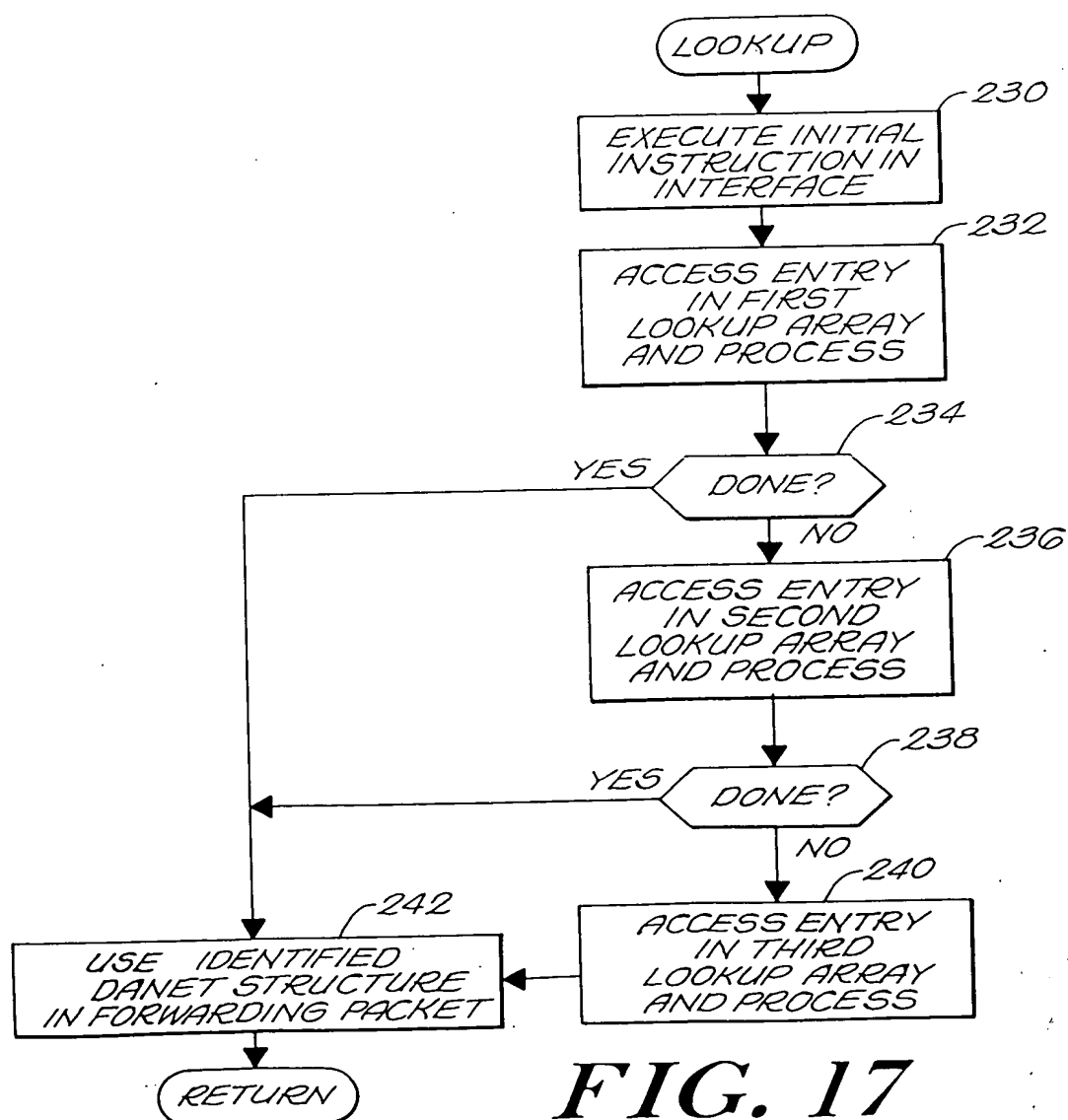


FIG. 15

**FIG. 16****FIG. 17**

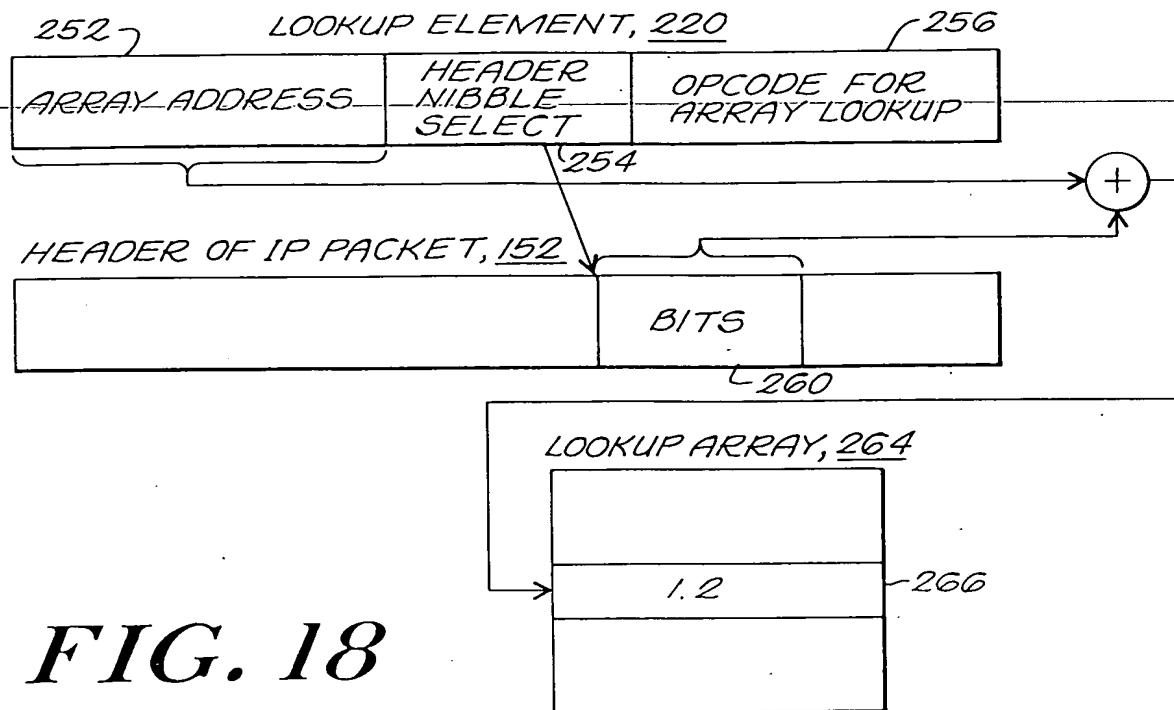


FIG. 18

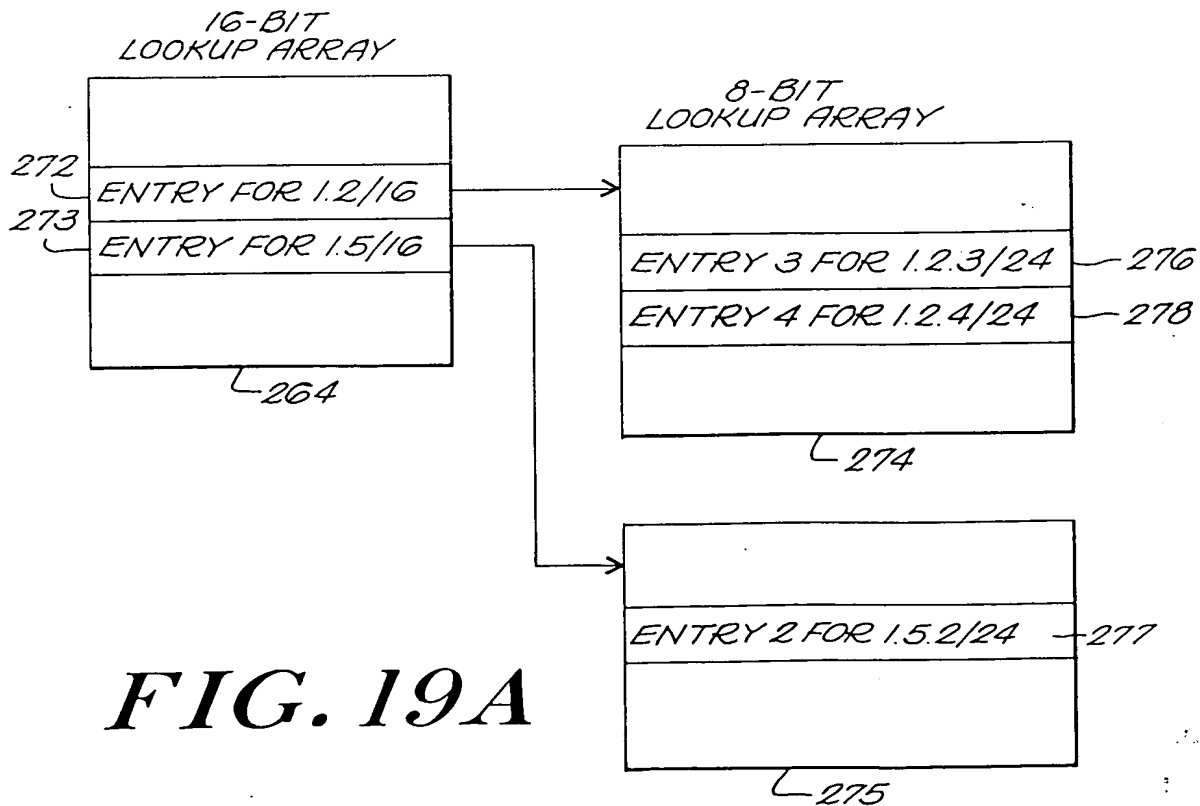
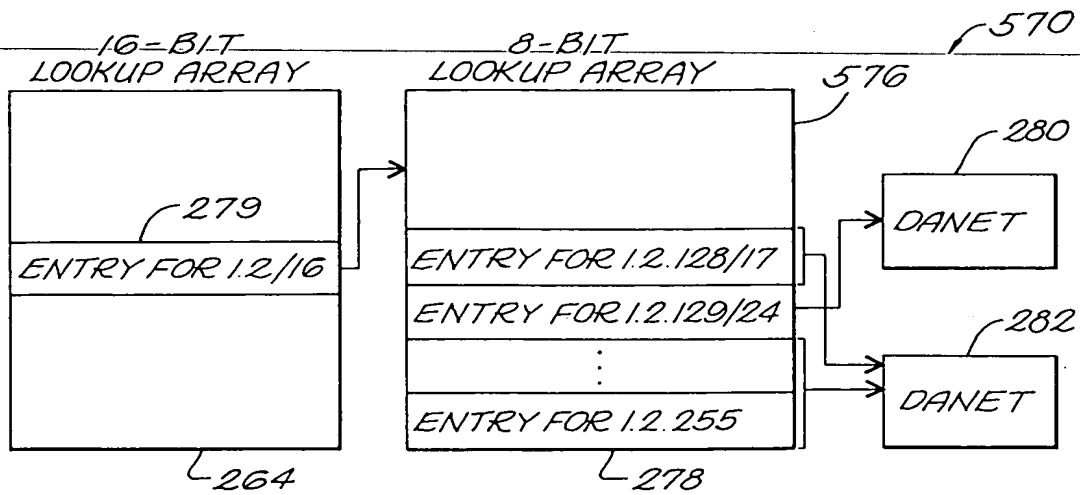
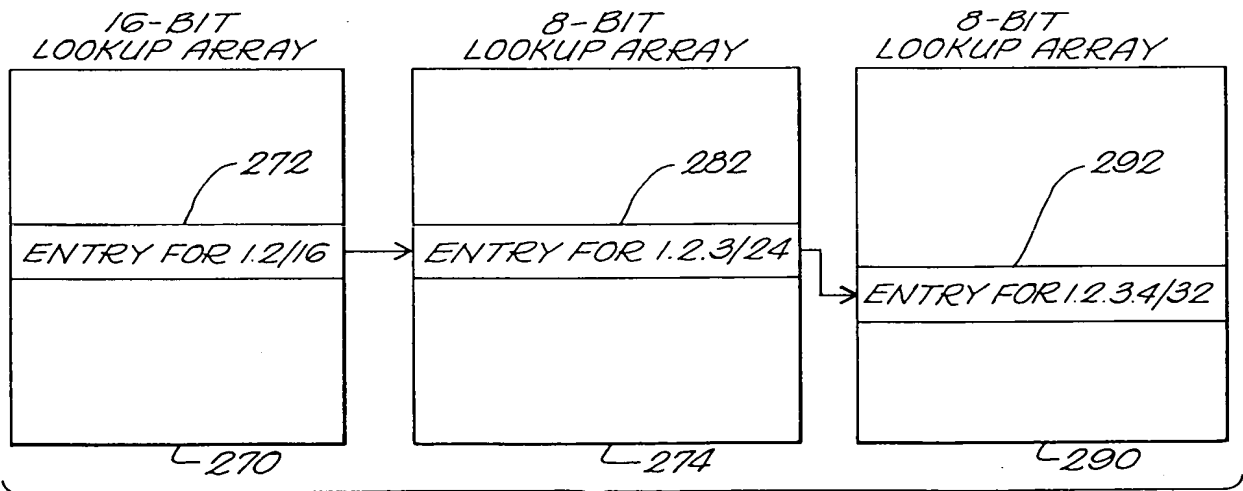


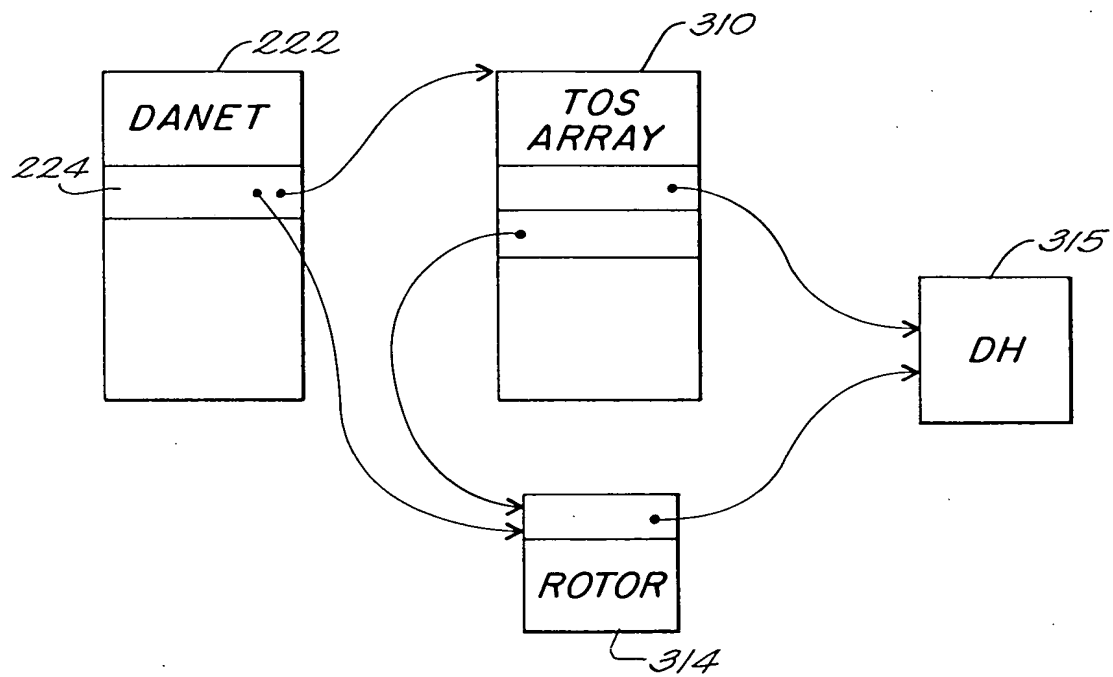
FIG. 19A

**FIG. 19B****FIG. 19C**

LOOKUP ELEMENT, 300

ARRAY ADDRESS	HEADER NIBBLE SELECT	OPCODE.
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FIG. 20

**FIG. 21**